<u>Organization</u>	TC1700	Bldg/RodREWOEN
Ur		
P.(
Alexanuria; vr	12210 1100	the state of the s
If Undeliverabl	e Return in Te	n Days



OFFICIAL BUSINESS PENALTY FOR PRIVATE USE, \$300 AN EQUAL OPPORTUNITY EMPLOYER

COOP185* 100362112 1409 13 05/24/10 FORWARD TIME EXP RTN TO SEND COOPER & DUNHAM LLP 30 ROCKEFELLER PLZ FL 20 NEW YORK NY 10112-0077

RETURN TO SENDER

TPEA STATES PATENT AND TRADEMARK OFFICE UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 MAY 2 6 2010 www.uspto.gov FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. APPLICATION N 0796-76794/DSD 5717 10/592,913 Wendelin Jan Stark **EXAMINER** 05/20/2010 7590 AHVAZI, BIJAN Donald S Dowden PAPER NUMBER Cooper & Dunham ART UNIT 1185 Avenue of the Americas 1796 New York, NY 10036 DATE MAILED: 05/20/2010

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 214 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 214 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

05/20/2010

Donald S Dowden Cooper & Dunham 1185 Avenue of the Americas New York, NY 10036

EXA	MINER
AHVA	ZI, BIJAN
ART UNIT	PAPER NUMBER
1706	

DATE MAILED: 05/20/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/592.913	11/13/2006	Wendelin Jan Stark	0796-76794/DSD	5717

TITLE OF INVENTION: FLAME SYNTHESIS OF METAL SALT NANOPARTICLES, IN PARTICULAR CALCIUM AND PHOSPHATE

COMPRISING NANOPARTICLES

APPLN, TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0	\$1055	08/20/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. <u>STATUTORY PERIOD CANNOT BE EXTENDED</u>. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.
- B. If the status above is to be removed, check box 5b on Part B -Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.
- II. PART B FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless correcte maintenance fee notifica	ed below or directed oth	ng the Patent, advar nerwise in Block 1,	ce orders and r by (a) specifyir	notification of n	naintenance fees w pondence address;	rill be r and/or	nailed to the current of (b) indicating a separ	orrespondence address as ate "FEE ADDRESS" for	
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Fee(Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.				
	7590 05/20	/2010			Cert	tificate	of Mailing or Transm	ission	
Donald S Dow				I her	reby certify that the	s Fee(s	Transmittal is being	deposited with the United class mail in an envelope bove, or being facsimile indicated below.	
Cooper & Dunh				addr	essed to the Mail	Stop	SSUE FEE address a	bove, or being facsimile	
1185 Avenue of New York, NY				trans	smitted to the USP	10 (57)	1) 273-2885, on the da	te indicated below.	
New Tork, NT								(Depositor's name)	
				-		-		(Signature)	
40044645104440	FU DIO DATE		FIDOTENIA	(CD DUID TOD			NEW DOCKET NO		
APPLICATION NO.	FILING DATE			MED INVENTOR	<u> </u>			CONFIRMATION NO.	
10/592,913	11/13/2006	cala or Metal		elin Jan Stark	DI DARTICHI A		96-76794/DSD	5717	
TITLE OF INVENTION COMPRISING NANOP.		ESIS OF METAL	SALT NANC	OPARTICLES,	'IN PARTICULA	R CA	LCIUM AND PHOS	РНАТЕ	
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICA	TION FEE DUE	PREV. PAID ISSUE	FEE	TOTAL FEE(S) DUE	DATE DUE	
nonprovisional	YES	\$755		\$300	\$0		\$1055	08/20/2010	
EXAM	IINER	ART UNIT	CLASS	-SUBCLASS					
AHVAZ	I, BIJAN	1796	1796 252-182110		,				
1. Change of corresponde CFR 1,363).	ence address or indication	n of "Fee Address" (atent front page, lis		1		
☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.		nce òr agen	(1) the names of up to 3 registered patent attorneys or agents OR, alternatively,						
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.		register	(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to						
		listed, r	2 registered patent attorneys or agents. If no name is 3						
	ND RESIDENCE DATA				•				
PLEASE NOTE: Uni recordation as set fort	less an assignee is identi h in 37 CFR 3.11. Comp	ified below, no assi pletion of this form i	gnee data will a s NOT a substitu	appear on the pa ate for filing an a	itent. If an assigno assignment.	e is id	entified below, the do	cument has been filed for	
PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment. (A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)									
Plcase check the appropr	iate assignee category or	categories (will not	be printed on th	e patent):	Individual Co	rporatio	on or other private grou	p entity Government	
4a. The following fee(s)	are submitted:		4b. Payment	of Fee(s): (Plea	se first reapply an	y previ	iously paid issue fee sl	nown above)	
Issue Fee				ck is enclosed.					
	lo small entity discount p				d. Form PTO-2038				
☐ Advance Order - 1	# of Copies		Overpa	rector is hereby syment, to Depos	authorized to charg sit Account Numbe	ge the r	equired fee(s), any defi (enclose an	extra copy of this form).	
5. Change in Entity Sta	•	•	г.						
• •	s SMALL ENTITY statu						ITY status. See 37 CF		
interest as shown by the	records of the United Sta	tes Patent and Trade	mark Office.	one other than th	е аррисані, а теді	Sicicu a		assignee or other party in	
Authorized Signature	<u> </u>				Date				
Typed or printed name	e				Registration N	0		·	
This collection of inform an application. Confident submitting the completed	nation is required by 37 C tiality is governed by 35 d application form to the	FR 1.311. The infor U.S.C. 122 and 37 USPTO. Time will	mation is require CFR 1.14. This vary depending	ed to obtain or recollection is esting upon the indiv	etain a benefit by the imated to take 12 n idual case. Any cor	ne publi ninutes mments	c which is to file (and to complete, including on the amount of	by the USPTO to process) gathering, preparing, and e you require to complete	

this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

	Application No.	Applicant(s)	\neg				
	Application No.	Applicating)					
Nation of Allowed W.C.	10/592,913	STARK ET AL.	\Box				
Notice of Allowability	Examiner	Art Unit					
	BIJAN AHVAZI	1796					
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate com IGHTS. This application i	o in this application. If not included munication will be mailed in due course. THIS	,				
1. \boxtimes This communication is responsive to <u>04/19/2010</u> .							
2. The allowed claim(s) is/are 23.							
 3. Acknowledgment is made of a claim for foreign priority unally a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do 	e been received. e been received in Applica	ation No					
International Bureau (PCT Rule 17.2(a)).		·					
* Certified copies not received:			i				
The drawings filed on 09/15/2006 are accepted by the Examiner	·	•					
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.							
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give	itted. Note the attached E es reason(s) why the oath	EXAMINER'S AMENDMENT or NOTICE OF or declaration is deficient.					
5. CORRECTED DRAWINGS (as "replacement sheets") must	st be submitted.						
(a) ☐ including changes required by the Notice of Draftspers	son's Patent Drawing Rev	iew (PTO-948) attached					
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date							
(b) including changes required by the attached Examiner' Paper No./Mail Date	s Amendment / Commen	t or in the Office action of					
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t		A=D 4 4644 B					
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.							
Attachment(s)	. 5 🗀 Notice of	Informal Patent Application					
 Notice of References Cited (PTO-892) Notice of Draftperson's Patent Drawing Review (PTO-948) 		Summary (PTO-413),					
2. Motice of Dialiperson's Faterit Diawing Neview (F10-940)	Paper N	lo./Mail Date					
3. Information Disclosure Statements (PTO/SB/08),	7. 🛛 Examine	r's Amendment/Comment					
Paper No./Mail Date <u>01/14/2010</u> 4. ☐ Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examine	r's Statement of Reasons for Allowance					
of Biological Material	9. 🗌 Other						
			-				
		•					
•							

Application/Control Number: 10/592,913 Page 2

Art Unit: 1796

DETAILED ACTION

1. This action is responsive to the amendment filed on April 19, 2010.

2. Claim 4 is canceled. Claims 1-3, 5-32 are now pending.

The terminal disclaimer filed on 4/19/2010 disclaiming the terminal portion of any patent

granted on this application which would extend beyond the expiration date of 10/557,339 has

been reviewed and is accepted. The terminal disclaimer has been recorded

Examiner's Amendment

3. An examiner's amendment to the record appears below. Should the changes and/or

additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR

1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the

payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with

Richard F. Jaworski on 05/12/2010.

4. The application has been amended as follows:

Cancel claims 25-32 without prejudice.

Allowable Subject Matter

5. Claims 1-3, 5-24 are allowed.

6. The following is an examiner's statement of reasons for allowance:

Application/Control Number: 10/592,913

respect to prior art of record.

Art Unit: 1796

The most pertinent prior art known by the Examiner is listed in the attached form PTO-1449. Prior art of record, taken alone or in combination, do not teach or fairly suggest the claimed method for producing metal salts wherein said method comprises: a) forming a mixture of at least one metal source of the cationic metal which is a metal carboxylate with a mean carbon number per carboxylate group of at least 3 and at least one anion source of the anionic group into droplets, and b) oxidizing said droplets in a high temperature environment, wherein the cationic metal is any metal cation, and wherein the anionic group is selected from phosphates, borates, silicates, sulfates, carbonates, hydroxides, fluorides and mixtures.

Accordingly, the presently claimed invention as defined by claims 1-3, 5-24 is patentable with

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Examiner Information

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bijan Ahvazi, Ph.D. whose telephone number is (571)270-3449. The examiner can normally be reached on M-F 8:0-5:0. (Off every other Friday).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Harold Y. Pyon can be reached on 571-272-1498. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Information

Art Unit: 1796

Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/BA/ Bijan Ahvazi, Examiner Art Unit 1796 /Harold Y Pyon/ Supervisory Patent Examiner, Art Unit 1796

05/12/2010

Dkt.

796/76794

PAGESTHE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of:

Jan Wendelin Stark et al.

Serial No.

10/592,913

Examiner: Bijan Ahvazi

Date Filed

November 13, 2006

Group Art Unit: 1796

For

FLAME SYNTHESIS OF METAL SALT NANOPARTICLES IN

PARTICULAR CALCIUM AND PHOSPHATE COMPRISING

NANOPARTICLES

30 Rockefeller Plaza New York, N.Y. 10112

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

COMMUNICATION TO SUPPLEMENT INFORMATION DISCLOSURE STATEMENT

Sir:

This Communication is submitted to supplement the Information Disclosure Statement filed

December 7, 2009.

Remarks begin on page 2 of this paper.

I hereby certify that this paper is being deposited this date with the U.S. Postal Service as first class mail addressed to the Commissioner for

Patents, P.O. Box 1450, Alexandria A 2

Richard F. Jaworsk

Reg. No. 33,515

Junuary 7,2010

Date

REMARKS

On page 2 of the Information Disclosure Statement filed December 7, 2009,

Applicants indicated that copies of reference items 23-25 were not available but would be submitted as soon as available.

Applicants hereby submit copies of the reference items 23-25 which are attached hereto as Exhibits 1-3.

The Office is hereby authorized to charge any additional fees which may be required for consideration of this Communication and to credit any overpayment to our Deposit Account No. 03-3125.

Early and favorable consideration of the case is respectfully requested.

Respectfully submitted,

RICHARD F.JAWORSKI

Registration No. 33,515

Attorney for Applicants Cooper & Dunham LLP

Tel. (212) 278-0400